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(54) Title: ALCOHOL-AIR FUEL CELL

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(57) Abstract: The invention relates to the field of fuel cells, in particular to alcohol-air fuel cells (AAFC) and may be used during the production of generators on the base of these AAFC. In accordance with the invention AAFC comprises an anode chamber with liquid catalytically active anode, an air chamber with catalytically active gas-diffusion cathode, an electrolyte chamber with a liquid electrolyte and membrane electrolyte, which is positioned between the cathode and the anode, wherein an aqueous alkaline solution is used as the liquid electrolyte and a non- platinum catalyst, tolerant in respect to alcohol, is used as the cathode catalyst. The object of the invention is to create an AAFC that has high efficiency and is inexpensive.